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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/613,389 07/11/2000		Takaei Kihara	36856.324	1302		
35510	7590 04/08/2005	EXAMINER		INER		
	KEATING & BENNETT, LLP 10400 EATON PLACE			PENDLETON, BRIAN T		
SUITE 312	IVI BROL		ART UNIT	PAPER NUMBER		
FAIRFAX, V	/A 22030		2644			

DATE MAILED: 04/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appl	ication No.	Applicant(s)				
		09/6	13,389	KIHARA, TAKAEI				
	Office Action Summary	Exar	niner	Art Unit				
			T. Pendleton	2644				
Period fo	The MAILING DATE of this communion Reply	cation appears o	on the cover sheet with the	correspondence ad	ldress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNION Insions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- to period for reply specified above is less than thirty (30 to period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months af- ed patent term adjustment. See 37 CFR 1.704(b).	CATION. If 37 CFR 1.136(a). In Inication. It days, a reply within the strength of the stren	no event, however, may a reply be ti he statutory minimum of thirty (30) da and will expire SIX (6) MONTHS from he application to become ABANDON	mely filed ys will be considered time in the mailing date of this of				
Status								
1)⊠	Responsive to communication(s) filed	l on 02 Novemb	per 2004.					
2a)□	• •	b)⊠ This action						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)⊠ 6)⊠ 7)⊠	 Claim(s) <u>2-22</u> is/are pending in the application. 4a) Of the above claim(s) <u>1</u> is/are withdrawn from consideration. Claim(s) <u>2-12</u> is/are allowed. Claim(s) <u>13 and 15-22</u> is/are rejected. 							
Applicati	on Papers							
	The specification is objected to by the		antad or h)M abjected to	ny tha Evaminar				
10)[2]	0) ☐ The drawing(s) filed on 11 July 2000 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to				• •			
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of None of: 2. Certified copies of the priority of None of: 3. Copies of the certified copies of the priority of None of the certified copies of the certified copies of the certified copies of the certified copies of the Internation of the attached detailed Office action	ocuments have ocuments have f the priority doo al Bureau (PCT	been received. been received in Applicat cuments have been receive Rule 17.2(a)).	ion No ed in this National	Stage			
		ioi a list oi trie	certined copies not receive	tu.				
Attachment	•							
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate)-152)			

DETAILED ACTION

Drawings

The drawings are objected to because they contained crossed out foreign reference numbers and characters. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 13 and 15-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cross in view of the Applicant's Admitted Prior Art (APA). Cross discloses a controlled dispersion speaker configuration comprising a driver 12, front baffle board 10, rear baffle board 22 and spacers 24. The driver is mounted on the first major surface of the first baffle board such that the first baffle board is disposed between the driver and the second baffle board (see figure 1). Cross does not disclose a spherical vibrator. Applicant discloses a conventional loudspeaker comprising a spherical vibrator 2 in figure 5 as prior art. It was suggested by Cross to use the configuration to minimize the effect of side and rear sound radiation and produce a stable forward directional sound pattern. Thus, it would have been obvious to one of ordinary skill in the art at the time of invention to use the configuration for the conventional vibrator disclosed in the APA for the purpose of providing an improved spherical loudspeaker. Claim 13 is met. As to claims 15-22, the relationship between the specific resonance frequencies of the baffle boards, the relationship of the resonance frequencies of the baffle boards and the space between them, and the relationship of the natural resonant frequency of the vibrator to the resonance frequencies of the baffle boards and the space are all variables that one of ordinary skill in the art would have explored when configuring the invention of Cross with a spherical vibrator. It would have been obvious that all the specifically claimed relative amounts of one variable to another variable would have been realized without undue experimentation and used as appropriate functioning loudspeakers in applicable environments.

Allowable Subject Matter

Claims 2-12 are allowed.

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Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian T. Pendleton Examiner Art Unit 2644 Page 4

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